

# EUREKA

review

2007





# EUREKA

'A more coherent and integrated future for European research is finally taking shape as private, public and national stakeholders come together. With the expertise that we have amassed at EUREKA and our flexible bottom-up, industry-focussed approach, we are proud to take part in mobilising that future'

Luuk Borg  
Head of the EUREKA Secretariat, Brussels

It has been over 20 years since EUREKA first championed a new fast and flexible approach to supporting technological innovation. With 42% of project participants coming from small and medium-sized enterprises (SMEs), we have continued to highlight the critical role that this business sector plays in European industry.

In the autumn of 2007, after two years of intense negotiations at national and EU level, EUREKA launched the Eurostars Programme, specifically dedicated to research-performing SMEs. It has sparked the beginning of a new era for EUREKA and reinforced our enduring mission to support European industry and increase competitiveness in Europe, giving smaller businesses the kick start they require to innovate.

This first edition of the EUREKA Annual Review clearly demonstrates the hard work carried out by all the members of our network, who continue to make the most of Europe's strong potential to innovate. EUREKA projects, that bring together industry, small businesses and academia, serve as an example of our success. The following pages illustrate what has been achieved over the last year and highlight some of the projects that have created new markets, improved business and enhanced the lives of everyday Europeans.

We hope you enjoy looking back on the results of 2007.



“BY POOLING RESOURCES WITH ITS MEMBER COUNTRIES AND THE COMMISSION, **EUREKA** IS GALVANISING ITS POSITION AS THE FIRST EUROPEAN NETWORK FOR RESEARCH-PERFORMING BUSINESSES IN EUROPE”

Professor Fabio Pistella  
*Former Chairman of EUREKA's Italian Chairmanship  
(July 2006 – June 2007)*

**EUREKA** has long encouraged and stimulated policy-maker debate at both EU and member country level in order to boost growth and jobs through knowledge. By creating new funding and support instruments, harmonising procedures and synchronising national funding, it continues to stimulate cross-border collaboration while responding to business needs.

The Italian Chairmanship was delighted to have been instrumental in further strengthening and defining the network's position in the European Research Area (ERA) by establishing dialogue and taking concrete action with the European Commission on Joint Technology Initiatives (JTIs).

Aside from creating advances in EU-level joint programmes, we were also proud to have witnessed EUREKA's global individual portfolio grow by 214 projects, with a total investment of 345 million euro. Furthermore, investment in 55 new projects under EUREKA Clusters MEDEA+, ITEA2, CELTIC and EURIPIDES totalled 1.054 billion euro. Two microelectronic Cluster projects alone attracted 284 million euro.

On a less strategic level, we also successfully developed a Virtual Innovation Broker Website, giving visitors an online research facility to access the EUREKA and Italian Research Council's research project databases.

As a team we effectively laid down the groundwork for the Slovenian Chairmanship and helped form the basis to build a stronger network supporting European industry.

“AMBITION AND ENTHUSIASM HAVE BEEN THE DRIVING FORCE FOR OUR COUNTRY IN THE PAST AND HAVE CERTAINLY PLAYED A ROLE DURING OUR EUREKA CHAIRMANSHIP YEAR. WE ARE PROUD TO CONTRIBUTE TO A MORE INTEGRATED AND COHERENT FUTURE FOR THE EUROPEAN RESEARCH SECTOR”

Aleš Mihelič  
High Level Group Chairman,  
EUREKA Slovenian Chairmanship  
(July 2007-June 2008)



**BUILDING** an internal market for researchers will help make Europe the most competitive knowledge-based economy. With its wide network and experience, EUREKA is already a strong player in the field of research and has the potential to further increase European competitiveness, becoming a key player within the ERA.

In the first months of our Chairmanship year, we responded to the European Commission's Green Paper on the ERA, emphasising the central role of business in R&D as a knowledge generator and user. We also focused on the importance of a greater interaction between intergovernmental initiatives and the necessity of fostering public-private partnerships.

In an increasingly competitive world, Europe needs to support the SME market. They provide 75 million jobs and account for 99% of all businesses and therefore play a crucial role increasing European growth and jobs. The announcement of the Eurostars Programme in October 2007, sparked the beginning of a new era as the programme hopes to bring a new level of cooperation and integration between Community and national research programmes.

Eurostars is a powerful illustration of the ERA in action, responding to the specific needs of SMEs. Synchronising and harmonising funding so this important niche-market has the necessary support to undertake often high-risk projects.

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# DID YOU KNOW?

Over 26 billion euro of public and private funding has been mobilised to support research and development (R&D) carried out within the EUREKA framework. On-going projects are attracting investment of some 4 billion euro.

So far, EUREKA has involved 13,289 partners from industry, the majority from SMEs, as well as research centres, universities and national administrations.

- > 2125 individual projects completed for a budget of more than 16,5 billion euro.
- > 235 Cluster projects completed for a budget of 5,5 billion euro.



# THE SECRET OF OUR SUCCESS

Projects are what make EUREKA's success. Results stemming from these projects are all around us and, in many cases, they are part of our everyday life.

GSM mobile technology, car-navigation systems, smartcards to support mobile and electronic commerce, special effects software for cinema, state-of-the-art medical devices and technologies to monitor and limit environmental pollution are just a few projects that reflect the added-value of our approach.

EUREKA believes that business knows best. Project participants are encouraged to decide the way their project comes together and evolves, from the 'bottom up'. Being fast and flexible is the most effective way for innovation to reach the market. Published online, EUREKA's 'success stories' reflect the strong collaborative nature of projects and the variety of sectors they touch while also demonstrating Europe's potential for technological innovation.

Here is a selection of success stories published in 2007...



### **A healthier start to a pig's life**

E! 2675 HEALTHY WEANING has developed a plant-based product, given at a specific stage before weaning, that stimulates piglets' digestive tract development, helping them adapt and significantly increase chances of successful weaning. The technique should have major cost benefits for pig producers.



### **Supporting world-leading innovation in paediatrics**

E! 3292 MULTI-PATCH has developed a range of products to detect the most frequently observed children's allergies, including milk, corn, soy and house dust mites. Results represent a major success for European medical research and development, and a big commercial hit for project partners.



### **Advanced technologies for fresh-food products**

E! 1975 EUROAGRI GREENTEC has worked on improving the conservation of consumer-friendly vegetables. New technologies, including edible film wraps, and new methods for processing under modified atmospheres were combined with more traditional preservation techniques to improve the quality of ready-to-use products.



### **Monitoring devices for security and economy**

E! 2711 ARTSAFE has developed data collection and communication services for protecting and monitoring high-value or hazardous objects. The radio frequency identification (RFID)-based system can be used in buildings such as airports, offices and retail outlets, on construction sites and in manufacturing facilities.



### **A new era of communication at sea**

Thanks to E! 3194 FORCE8 high-speed Internet services, video conferencing and large volumes of data transfer can now be accessible to all at sea. The innovation brings together service providers and uses the advances in antenna technology to provide this service.



### **Providing safe sanitation in isolated areas**

The spread of bacteria through poor waste management can quickly become fatal in areas of conflict involving the displacement of civilians or deployment of soldiers. E! 3105 HYGICLAIR C100 developed a fully mobile, low energy, organic waste purification system to address the problem.



### **Helping trap high-tech criminals**

E! 3664 IT FORENSIC developed the world's fastest hardware-based portable personal computer forensic system, able to copy and protect evidence in criminal cases involving computers and digital networks. It enables law-enforcement agencies to tackle high-tech criminals faster and more effectively.



### **Better concrete for better buildings**

A new generation of versatile, ultra high-performance concrete materials developed by E! 2829 INNOCONCRETE allows civil engineers, architects, manufacturers of pre-cast concrete and even furniture designers to produce structures and components that are durable, lighter in weight and more elegant in design.



### **Introducing innovative furniture design for seniors**

Working with glass fibre and wood lamella, E! 3120 SPECIFURN developed strong and stable yet delicate structures that are lightweight, ergonomic and easy to handle. The project took a coherent approach to a complex series of problems associated with the aged.



### **Feeling the earth move**

E! 2579 GEODETECT has developed an effective and totally novel product for detecting soil subsidence. Optical fibres are embedded in a composite 'geotextile' to make a layer which can be built into structures where earth subsidence is critical or in regions where subsidence is likely.



### **Cleaner heat without the burn, for industries worldwide**

The hazardous manual cleaning of heavily clogged boiler pipes can become a thing of the past, thanks to a microprocessor-controlled pipe cleaning attachment developed by E! 3237 APCS. It offers industry far lower-cost boiler solutions for heavy-duty applications.



### **Boosting industrial quality control**

E! 3455 FACTORY MONITORING SYSTEM has developed an innovative and easy-to-use multi-channel measuring and monitoring system for industrial quality control. Equipment is able to work with most commercially available sensors and is already starting to find applications in the chemical, pharmaceutical and automotive industries.



### **Smart sound insulation leads to greener cars**

Results stemming from E! 2411 ERTAC are successfully helping to reduce car weight and fuel consumption, limiting carbon dioxide emissions without diminishing overall safety, performance or comfort of the vehicle. Participants developed a simulation technique to predict material behaviour for lighter sound insulation.



### **Improving rail freight transport management**

E! 3161 LOGCHAIN+ E\_RAILMAP has created an electronic map of the European railway network. Maps can be displayed via both desktop-based and Internet-based computer applications, incorporating links between graphic symbols and other regularly updated information, including text.



### **Rotary engine technology takes off in general aviation**

E! 2743 KERO project is driving key Federal Aviation Authority (FAA) certification for Wankel rotary engines in general aviation. Advantages include excellent reliability as there are few moving parts, a high power-to-weight ratio, compactness and smooth running compared with conventional piston engines. Moreover, the engine will run on widely available jet fuel.

*Read more success stories by visiting <http://www.eureka.be/successStory>*

# VIVA ITALIA!

Beautiful locations, classical architecture and delicious food and wine are just some of the memories that can be drawn from Italy's tenure of EUREKA. However, it is not only about putting on a good show, the Italian team also contributed to strengthening EUREKA's existing ties with the European institutions and showed record-breaking results in project generation.

During the first network meeting in Como, EUREKA endorsed 70 projects, the highest number of innovative projects ever recorded for a first network meeting and in one Chairmanship. There was also an increase in Cluster project generation, both in terms of the number of projects and their budget, with a total of 55 projects worth 1054 million euro. Innovative projects also fared well, generating 214 individual projects worth some 344 million euro.



“ We also wanted to draft a thorough evaluation of EUREKA’s project portfolio, positioning the network within the European landscape and looking at how changes in the research sector have been taken into account over the last twenty years. ”

**Aldo Covello**  
*NPC Chairman*

“ Europe faces new challenges if it wants to grow and become more competitive. The Italian Chairmanship initiated discussions on defining a new strategy for EUREKA which will contribute to strengthening Europe’s global economic position. ”

**Francesco Jovane**  
*HLG Chairman*

“ The Virtual Innovation Broker is an excellent instrument. It not only makes use of EUREKA for project generation but also creates advanced tool for deploying the culture of innovation available within the EUREKA member countries. ”

**Luigi Lombardi**  
*Head of the Italian Chairmanship office*





Left to right: Francesco Paolucci, Italian High Level Representative Francesco Jovane and Head of the EUREKA Secretariat Michel Vieillefosse attend the HLG meeting in Catania, Sicily



Lynx and Lillehammer award winners receive their prizes at the meetings in Rome



A sunny conference room at the network meetings in Rome, where the last network meetings of the Italian Chairmanship took place



Discussions at the NPC meeting in Catania



Taking notes at the meetings in Venice



Michel Vieillefosse presents project results at the NPC meeting



Taking a well-deserved break outdoors

# NETWORK MEETINGS

## EUREKA Italian Chairmanship

### **NPC1 and HLG1**

17-19 October 2006

Como

### **NPC3 and HLG3**

17-19 April 2007

Venice

### **NPC2 and HLG2**

23-25 January 2007

Catania

### **NPC4 and HLG4**

12-14 June 2007

Rome



Tasting Sicilian delicacies in Catania

# AND THE WINNER IS...

Besides supporting European technological innovation, EUREKA also recognises and rewards its project participants for their contribution to increasing European competitiveness and improving the environment.



**PIDEA WALPACK**

“ The Lynx Award provided us with recognition for our success and helped us in all our marketing, as well as in communications with the public authorities in our country. EUREKA labelling also enabled us to put together the consortium faster ”

**Christian Val**  
CEO, 3D Plus  
France

“ The technology developed will facilitate new oil field development in deeper and more remote areas. Without EUREKA, finding funds for the project would have been difficult as we literally had to build a 1:1 scale separator in our test lab ”

**Toine Hendriks**  
Senior process engineer, CDS Engineering  
The Netherlands

The annual EUREKA Lynx Award highlights innovative SMEs whose growth is linked to technological, financial and commercial achievements obtained by participating in a EUREKA project. Every year, the Lillehammer Award is also presented to participants involved in a project that has developed sustainable solutions to waste and pollution problems.

In 2007, French SME 3D Plus received the EUREKA Lynx Award for setting up the highly successful WALPACK project. Alongside French and Polish processing and test equipment manufacturers, potential customers and research institutes, the company developed high-density, 3D chip-stacking technology for cost-effective system-in-package devices.



**E! 3040 SUBSEA SEPARATOR**



Following the EUREKA project, 3D Plus signed an agreement with NXP, formerly Philips Semiconductors, that now manufactures modules for 3D Plus as well as its own applications. Even before the end of the project, 3D Plus attracted interest from the USA for biomedical devices; in 2004, it received a 250,000 euro order for an implantable muscle micro stimulator. And it is developing high-capacity smart cards for a market with a major potential consumption of 400 million cards a year.

Dutch and Norwegian project E! 3040 SUBSEA SEPARATOR was granted the Lillehammer Award for developing compact subsea processing equipment that promises better use of increasingly scarce resources and is set to improve the economics of offshore oil and gas production. The outcome has resulted in the world's first subsea separating system for oil, water and sand.

Supplied by FMC Technologies, it was installed in the Norwegian Statoil Tordis field in the North Sea.

# SMALL COUNTRY BIG AMBITION

In July 2007, it was the turn of Slovenia to take over Chairmanship of EUREKA. It was the first time the country chaired the network since it became a member in 1994. Its size was definitively not an obstacle to achieving high objectives. Enthusiasm played an important part in drafting an ambitious programme that focuses on defining and strengthening EUREKA's position within the European Research Area (ERA), building on established EU relations and expanding the network's geographical boundaries to the Western Balkans. Better support for research-performing SMEs is also a priority, harmonising procedures and synchronising funding to create an even stronger instrument for European innovation.

The Chairmanship is a very important opportunity for the country itself. Information on projects is not always sufficiently communicated nationally or exploited to make it attractive to business. Improving and increasing EUREKA project visibility will automatically affect future project generation. Promoting EUREKA project results is one of the core objectives the Chairmanship wanted to start work on achieving straight away. From the first network meeting in Maribor, an exhibition was put together showcasing recent project results. The aim is to put results at the centre stage of each meeting and provide the online resources for continuing to do so in the future. By going back to basics, Slovenia will contribute to promoting research and increase European competitiveness.



“Our ambition is to combine the advantages of the EUREKA Chairmanship and the Slovenian Presidency of the EU (from January 2008) along with the cooperation with the EUREKA network and the European Commission, making a significant contribution to European research policies”

**Aleš Mihelič**

High Level Group Chairman

“Slovenia wishes to be recognised as a knowledge-based society and is conscious of the great importance and value of knowledge. Science is one of the areas in which it excels, competing equally in international research projects with other countries”

**Mojca Kucler Dolinar**

Slovenian Minister for Higher Education, Science and Technology





Arts and crafts demonstration at Maribor Castle



Chairman Gabrielle Marquette presents the latest news from EUROGIA, EUREKA's Cluster focusing on energy



Traditional Slovenian music



Head of the Secretariat Luuk Borg presents the project portfolio at the first Slovenian network meetings in Maribor



Bilateral meetings are an excellent opportunity for National Project Coordinators from EUREKA Member countries to talk about project progress



HLG Chairman Aleš Mihelič talks to the network



The second network meetings took place at the Hotel Golf in the Slovenian town of Bled



Among its priorities, the Slovenian Chairmanship aims to promote EUREKA project success by staging regular poster exhibitions that reflect European innovation

# NETWORK MEETINGS

## EUREKA Slovenian Chairmanship

### **NPC1 and HLG1**

24-26 October 2007

Maribor

### **NPC1 and HLG1**

23-25 January 2008

Bled



Time for a team photo before the NPC meeting starts in Bled



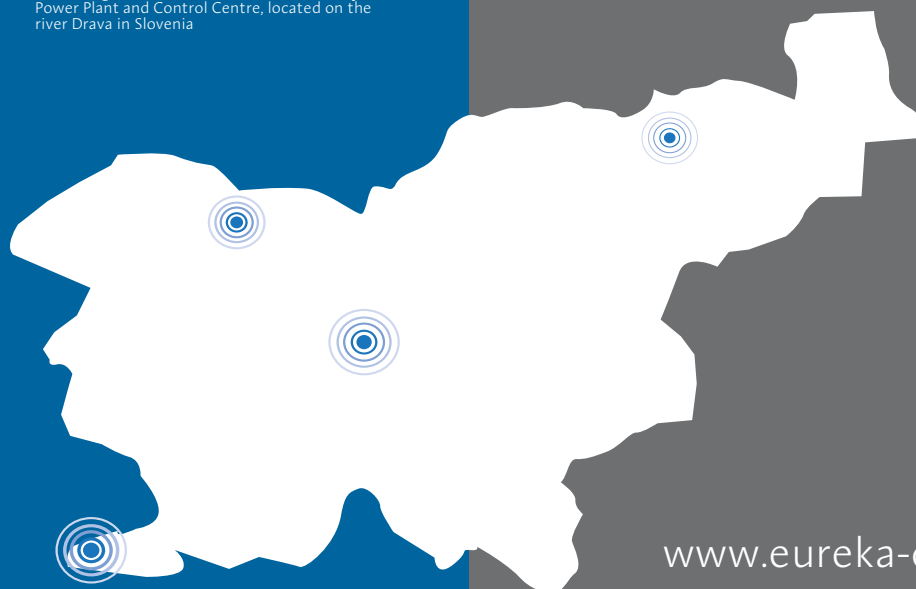
The Slovenian Chairmanship team sit down to eat at one of the evening dinners organised after the meeting sessions



Technological visit to the Mariborski Otok Hydro-Power Plant and Control Centre, located on the river Drava in Slovenia



Visiting a local wine cellar in Slovenia



[www.eureka-chair.si](http://www.eureka-chair.si)

# EUREKA TAKES TO THE STAGE

Behind all the policy and negotiations, EUREKA is driven by its projects. These results have formed the basis of the promotional activities EUREKA was involved in over 2007. Examples of innovative technology took centre stage in March at the European Business Summit event and during an exhibition at the European Parliament in Brussels.





# EUREKA TALKS BUSINESS

SMEs were the focus of discussions during one of the workshops at the 2007 European Business Summit. This time around, the event focused on 'Reform to perform: Europe is our business' and coincided with the 50th anniversary of the Rome Treaty. Luuk Borg was met with enthusiasm as he took to the floor to present the latest news on Eurostars, the Article 169 initiative focusing on funding for R&D-performing SMEs. He stressed the vital role this niche-market of businesses play in developing future European competitiveness and productivity.

'Many SMEs invest a considerable amount of time and money in R&D activities. However, public support is often low, limiting potential market. They want speed and simplicity and this is the challenge we have to meet. There is a need for predictable procedures, short lead times and guaranteed funding,' he insisted.

On the Commission side of the discussion, Dr. Zoran Stančić, Deputy Director General for DG Research agreed on the importance of making the Seventh Framework Programme more attractive to SMEs and that the priorities of the programme reflected the needs of industry. 'We need to support SMEs to develop common standards and solve technological problems and enlarge the range of support elements,' he added.



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“ The EU’s single market must be adapted to the realities of the 21st century if it is to respond to the challenges of increasing global competition, energy dependence, climate change and ageing populations. We must make markets function smoothly for Europe’s citizens, consumers and businesses. ”

**José Manuel Barroso**

*President of the European Commission*

# LOOKING AT THE FUTURE OF EUROPEAN INNOVATION

EUREKA was proud to showcase its success in contributing to European innovation during an exhibition at the European Parliament, sponsored by Italian MEP Vittorio Prodi. Representatives from the network and project participants were brought together to demonstrate EUREKA's strength in supporting research and development in Europe. The projects on show reflected the variety of technological areas in which EUREKA excels, widening possibilities for SMEs and research institutes applying for projects.

Representatives from EUREKA's Clusters were onsite to demonstrate their results and give visitors the chance to get a first-hand impression of products in diverse technological areas that have an impact on the everyday European. CELTIC, that focuses on telecommunications, presented its most recent achievements including the CELTIC FIDELITY project which has created an identity authentication system. ITEA2 was there to reveal the latest in software intensive systems and services including the ITEA 050024 SMARTOUCH project. MEDEA+, EUREKA's Cluster in microelectronics and embedded software, demonstrated projects including 2006 Pierre Noblanc Award winner MEDEA+ A406 PICS which has developed high-resolution complementary metal oxide semiconductor sensors and versatile image-processing algorithms to boost car safety.



“ EUREKA’s projects reflect the capacity Europe has to produce innovative technology. It is attractive to SMEs and plays a significant role in supporting European R&D and high-performing SMEs in particular. It is the ideal framework for trans-national collaboration, working to increase competitiveness and productivity in Europe

”

**Vittorio Prodi**

*Italian MEP*



> Irish MEP Avril Doyle sponsored EUREKA's Parliament working lunch, a chance to examine the programme's contribution to European R&D and its involvement in FP7 initiatives.



> The working lunch also enabled EUREKA's Cluster representatives to catch up on project matters.



> Eurobio 2007: Luuk Borg meets former European Research Commissioner Philippe Busquin.



> Many discussions focused on topics that affect everyday Europeans, including sustainable solutions for energy resources.



> A bright welcome to visitors attending the first EUREKATOURISM brokerage event in Chiclana, Spain.



> Presentations at the EUREKATOURISM brokerage event focused on innovations in the European tourism industry.





> Slovenian HLR Aleš Mihelič and Commissioner for Science and Research Janez Potočnik unveil the Eurostars painting.



> Panel members talk to the press after the launch.



> EUREKA organised a breakfast reception for the launch of the Eurostars Programme for research-performing SMEs.



> EBS 2007: Janez Potočnik and MEDEA+ Chairman Jozef Cornu talk research and business.



> Crowds gather at the EUREKA stand at Eurobio 2007 in Lille, France - an event that brings together bioscience and bio-industrial stakeholders from Europe and across the globe.



> A welcome drink at the EUREKA stand.



> Outside meeting times, visitors manage a moment to exchange ideas for starting potential tourism projects.



> The first EUREKA-COST twin event on aquaculture was an excellent opportunity to develop collaboration in this important sector.



> A conference session at the EURIPIDES Forum in Versailles. A recent merger between two Clusters, PIDEA and EURIMUS, EURIPIDES focuses on developing the latest smart system technology.



> Pol van den Bergen, from Innofisk, welcomes guests at the EUREKA-COST twin event on aquaculture. This EUREKA Umbrella supports projects relating to European fishery innovation.



> Members of the EUREKA network arrive at the Eurostars launch, which took place at the International Press Centre Residence Palace, Brussels.



> Team EURIPIDES poses for a picture at the Cluster's first forum.



> Irish MEP Avril Doyle sums up the topics discussed at the working lunch.



> Austrian EUREKA representatives were present at Viennano07, the country's international conference on micro- and nanotechnology.



> The Italian team at the European Parliament in Brussels.

# NEXT GENERATION TELECOMMUNICATIONS

The 2007 edition of the CELTIC Forum in Berlin provided a glimpse of the future of telecommunications. Peter Möckel, Managing Director of Deutsche Telekom Laboratories, stressed the importance of collaborative R&D for Deutsche Telekom and showed how results from collaborative European projects, such as CELTIC VIDIOS, are supporting the company's development of services and products. 'CELTIC is the ideal programme to close the gap between short-term product development and long-term research,' he said.

Another keynote speech by Dr. Volkmar Dietz, Head of the Communications Technologies division at BMBF, the German Ministry of Education and Research, communicated an outlook on the new German research programme ICT 2020. This hopes to strengthen the European orientation and the importance of telecommunications in German ICT research.

In the parallel exhibition, 17 CELTIC projects presented their results. At the CELTIC information day, a number of challenging new project ideas were presented. Several project partners were given the opportunity to network and find additional companies to join a possible consortium.



**CELTIC**  
Telecommunication Solutions

[www.celtic-initiative.org](http://www.celtic-initiative.org)



“ The event provided an excellent opportunity to show the state-of-the art of telecommunications. It showed that there is a development towards integrated next-generation telecommunications and multimedia systems for seamless use across mobile and fixed networks. ”

**José Jimenez**  
*Chairman CELTIC*

# MEDEA+ FORUM 2007

In the rapidly changing global industrial landscape, Europe's high-tech industry is exposed to ever-increasing technological, economical and societal challenges.

'MEDEA+ is perfectly in line with the planning,' commented Jozef Cornu, Chairman of the Cluster. 'It has delivered important results in applications ranging from wireless communications to smart cards and automotive electronics, helping European industry to maintain leading positions in these strategic global industries. These results are a tribute to efficient culture and infrastructure of cooperation developed by MEDEA+ and the preceding MEDEA and JESSI programmes.'

Out of the 77 labelled MEDEA+ projects, representing about 20 000 person-years, some 48 projects have already been successfully completed and another 9 projects will finish at year end, while another 20 projects will continue in 2008 or even beyond. Currently, 465 partner organisations from 22 countries are involved in project consortia and the trans-national nature of MEDEA+ is illustrated by the fact that, on average, partners for a project come from five different countries.

Cornu also highlighted the new EUREKA strategic initiative, called CATRENE, "Cluster for Application and Technology Research in Europe on Nanoelectronics", launched on October 25, 2007. This Cluster programme embodies the ambition of Europe and its companies to deliver nano- and microelectronics solutions that address different societal problems.



“ We are concentrating on lead markets, where nanoelectronics will make the difference, and CATRENE is the research and development programme that will make those technology and application developments happen ”

**Jozef Cornu**  
*Chairman MEDEA+*

[www.medeaplus.org](http://www.medeaplus.org)

# TAKING UP THE NANOELECTRONIC CHALLENGE

Rocketing R&D costs for ever smaller electronic devices and the pressures to get products to market even faster means Europe has to work together to maintain and increase competitiveness and employment in this sector. CATRENE (Cluster for Application and Technology Research in Europe on Nanoelectronics) is taking up the challenge of boosting Europe's strength in micro- and nanoelectronics. It is following in the footsteps of the already established and highly successful MEDEA+ Cluster for advanced cooperative research and development.

CATRENE is a four-year programme that started on 1 January 2008 and is extendable by another four years. Annual resources required will be 4,000 person-years, equalling to about 6 billion euro over eight years. The first call is to start in March 2008.

"The challenge is to increase productivity and reduce time to market," says Enrico Villa, Chairman of CATRENE. It is extremely important to create European leadership in security, safety and energy-conscious transport, the growing healthcare market, environmental protection, high-quality media and entertainment, and integrated communications for both business and consumers. The new Cluster is structured to meet these tough technological demands, offering a new approach while guarding the high flexibility and efficient organisation found in MEDEA+. It will also embrace all key actors in the value chain from applications, technology, materials and equipment suppliers to industrial companies, universities and other research institutions, supported by the public authorities.

## LIGHTING THE WAY AHEAD

Lighthouse projects, which form a part of CATRENE, address major socio-economic needs such as transport, healthcare, security, energy and entertainment through focused R&D programmes.

For more information on CATRENE

> visit [www.catrene.org](http://www.catrene.org) > email [medeaplus@medeaplus.org](mailto:medeaplus@medeaplus.org)

# ITEA<sub>2</sub> SYMPOSIUM 2007

## ICT IN A CHANGING WORLD

The annual ITEA<sub>2</sub> (Information Technology for European Advancement) Symposium took place in Berlin, Germany on 18 and 19 October 2007. Its theme focused on the influence of Information Communication Technology (ICT) on today's social changes in areas such as the ageing population, the digital divide, climate change, security and healthcare. The two-day event showcased some of Europe's most important industry-driven ICT initiatives. ITEA<sub>2</sub> focuses on pre-competitive research in embedded and distributed software-intensive systems and services in order to drive innovation in Europe's key industries.

Activities were centred around a keynote speech from Professor Wolfgang Wahlster, from the German Research Centre for Artificial Intelligence, on the challenges of software-driven innovations and trends in the ICT sector. Other speakers from public authorities, industry and market associations involved in ITEA<sub>2</sub> also gave their contribution to discussions. Participants from three prominent ITEA projects presented their results, including AMEC, ambient intelligence in the home, AGILE, a project that aims to make software development more efficient, and HD4U, high-definition TV for Europe.

ITEA<sub>2</sub> builds on the success of the ITEA programme in the field of embedded and distributed software-intensive systems and services. Reaction to the first two ITEA<sub>2</sub> calls for project proposals reflects the growing interest in this key area from a wide range of European industries.



# ITEA2

INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT

[www.itea2.org](http://www.itea2.org)



“Interest in ITEA2 is growing. A major challenge is to double the number of partners, with a target of 800, 50 percent of which should be SMEs. Following the first call for projects in 2006, 17 projects are now in the launch phase or are ongoing”

**Rudolph Haggmüller**  
*Chairman ITEA2*

# A HISTORICAL LOCATION FOR THE FIRST EURIPIDES FORUM

The Palais des Congrès in Versailles was the location for the first EURIPDES Forum, EUREKA's Cluster dedicated to smart systems based on development, integration and packaging of microcomponents and MEMs. Over two days, participants had the opportunity to meet European representatives from public authorities and industry involved in defining and completing projects in the field of smart systems integration. The programme reflected the diverse areas in which smart systems are used to improve the daily lives of European citizens, implicating the transport, medical and security industry sectors.

EURIPIDES-labelled projects aim to put research results on the market by encompassing technological break-points. The Cluster is a merger between EURIMUS II (Microsystems) and PIDEA+ (packaging and interconnection). Since 1998, both EURIMUS and PIDEA have established strong relationships between European industry and R&D institutes. In both Clusters, 300 partners from 20 European countries have collaborated in over 112 projects with a total public-private investment of almost 663 million euro.



[www.euripides-eureka.eu](http://www.euripides-eureka.eu)



“ For the first time, we were able to demonstrate our results with a number of presentations and roundtable discussions in a variety of areas involving smart systems. The exhibition also served as the ideal opportunity to demonstrate our results with several success story projects ”

**Gaëtan Menozzi**  
*Chairman EURIPIDES*



# EUROGIA COMPLETES ITS ENERGY PORTFOLIO

It was in the French town of Grenoble that EUROGIA announced the start of an exciting new partnership agreement between this EUREKA energy Cluster and the French competitiveness Cluster Tenerrdis, which focuses on new energies. Extending its scope of activities will attract new members, partners and countries on both sides.

Managing the world's energy resources, and exploring alternative new energies in the face of growing concern on climate change, is one of the world's biggest challenges. A compromise between economic growth and environmental protection is crucial for our future and a closer link needs to be created between research, climate change and economic objectives. Europe has resolutely opted for a 'market pull' approach to bring clean technologies onto the market in the short run. However, politicians realise new breakthrough technologies are also needed if deeper emission cuts are to be achieved in the long run. Moreover, industrialised nations who signed up to the Kyoto Protocol treaty are legally bound to reduce worldwide emissions of six greenhouse gases collectively by an average of 5.2% below their 1990 levels for 2008-2012.

EUROGIA's purpose is to initiate fundamental technological developments to ensure a better management of fossil fuels leading to a hydrogen economy. Complementary to existing European and national programmes, it offers a fast route to market growth through industry-led European cooperation. Like EUREKA Clusters in other technological areas, it encourages cooperation between large and small companies, research institutes and universities, seeking to strengthen European competitiveness in key technology areas.



[www.eurogia.com](http://www.eurogia.com)



“ The added value of this partnership will improve partnership creation and reinforce cross-fertilisation between industry sectors. It will also improve knowledge on managing energy resources in Europe, helping to tackle increasing global demands and climate change ”

**Gabriel Marquette**  
*Chairman EUROGIA*

# SUPPORTING THE STARS OF TOMORROW

Small and medium-sized enterprises (SMEs) provide 75 million jobs and account for 99% of all businesses in Europe. They therefore play a crucial role in the bid to meet the targets of the renewed Lisbon partnership for growth and jobs. However, while SMEs are the entrepreneurial stars of Europe, they frequently find it difficult to obtain the necessary financial support for their high-risk projects.

It has been over 20 years since EUREKA championed a new fast and flexible approach to supporting technological innovation. With 42% of EUREKA project participants coming from SMEs, EUREKA continues to highlight the critical role that this business sector has to play as drivers of economic growth. Now, after two years of intense negotiations at national and EU level, the EUREKA Eurostars Programme has been launched, specifically dedicated to this niche market area.



eurostars™



Leading policymakers, public officers and industry experts gathered in the heart of the Brussels' European quarter to witness the launch of the programme, marking a new era for EUREKA and European SMEs. Keynote speakers included Science and Research Commissioner Janez Potočnik, EUREKA High Level Group Chairman Aleš Mihelič and Emmanuel Leprince of the European Federation of High-Tech SMEs. They spoke on the challenges facing them, while exploring ideas on how to accelerate innovation to build a stronger knowledge-based European economy.

Eurostars offers a public/private funding package of 800 million euro over six years to support high-risk research and development (R&D) projects and transform new ideas into successful business. It will offer funding to SMEs with less than 250 employees investing at least 10% of their annual turnover in R&D. Activities have to involve multi-partner, multinational projects led by SMEs, but the programme is also open to other types of participants such as universities, research organisations and large companies. They must target market-oriented R&D, aimed at short- to medium-term commercial results.

The programme is managed by the EUREKA Secretariat in Brussels, under the authority of the Eurostars High Level Group of representatives of the participating countries. The Secretariat will issue calls, receive project proposals, organise evaluation by independent experts, manage the financial contributions to the programme, and monitor progress.

More information on Eurostars can be found at [www.eurostars-eureka.eu](http://www.eurostars-eureka.eu) or by contacting EUREKA National Project Coordinators.



“Eurostars brings a new level of cooperation and integration between Community and national research programmes, filling the gap that existed and using tools that were on our market but not used in this combination. It will boost R&D-performing SMEs and provides a powerful illustration of the European Research Area in action”

**Janez Potočnik**

*Science and Research Commissioner*

“Responding to SME needs, the European Commission and EUREKA members have established Eurostars, a joint programme with 27 EUREKA countries. This is the first support and funding programme specifically dedicated to this niche sector of the market”

**Luuk Borg**

*Head of the EUREKA Secretariat*



“ This initiative, put forward by EUREKA and the EU Community, will support research and development performing SMEs in executing market-oriented research in transnational projects. Participating Member States go beyond the mere coordination of research programmes, participating actively in a voluntary integration process covering scientific, management and financial aspects ”

**Aleš Mihelič**

*EUREKA High Level Group Chairman*



“ The attraction of Eurostars is that it is designed specifically for SMEs involved in research. The commission tackles red tape, regulations, standards, etc. These are all important, but they are not the specific problems of SMEs ”

**Emmanuel Leprince**

*European Federation of High-Tech SMEs*



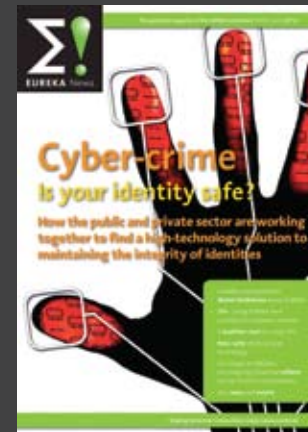
# EUREKA NEWS IN 2007



[www.eureka.be/enews79](http://www.eureka.be/enews79)



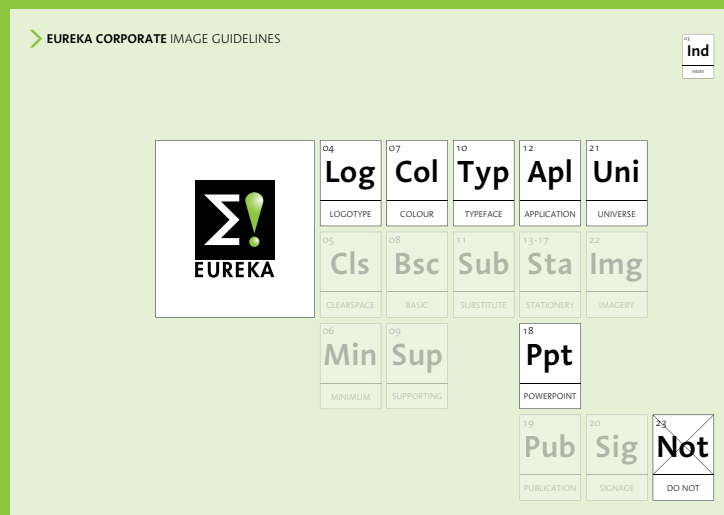
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## EUREKA CORPORATE IMAGE GUIDELINES

[www.eureka.be/inaction/cig.do](http://www.eureka.be/inaction/cig.do)

# CONTRIBUTING TO EU POLICIES

The EUREKA Secretariat has communicated to Research Commissioner Janez Potočnik its response on the European Commission's Green Paper on the European Research Area (ERA). It has congratulated the Commission for initiating an important reflection on the future development of the ERA.

Through this position paper, EUREKA emphasises the central role of business in R&D as a knowledge generator and user, the importance of greater interaction with intergovernmental initiatives and the necessity of fostering public-private partnerships. EUREKA's role to raise the productivity and competitiveness of European industry and national economies, through its 'bottom-up' approach to technological innovation, is an added-value next to other key R&D and innovation initiatives in Europe.

EUREKA remains a key driver within the European Research Area, especially in those technological fields where more intergovernmental coordination and cooperation, based on the principle of variable geometry, is needed. EUREKA expressed how it looks forward to more exchanges of ideas on those specific issues of the Green Paper which require special attention and warrant its direct involvement.

Europe has to foster and support high-value R&D and innovation-based industry in order to play a leading role at a global level. The governance roles played by the Commission and EUREKA have focused, respectively, on R&D and industrial R&D-based innovation. Coordination and synergies will enhance the effectiveness of the overall governance of ERA.

To read EUREKA's position on the Green Paper visit [www.eureka.be](http://www.eureka.be)

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